

CLAIMS

What is claimed is:

1. An audio information transmission system, for transmitting audio information among a two-wheeled vehicle, a mobile terminal and a helmet, wherein the system comprises a media control apparatus and an audio switching apparatus both provided in the two-wheeled vehicle, the audio switching apparatus being connected to the media control apparatus, wherein

the audio switching apparatus establishes a data connection to each of the mobile terminal and the helmet, to receive first audio information transmitted by the mobile terminal and forward the first audio information to the media control apparatus;

the media control apparatus is configured to receive the first audio information and second audio information generated by the two-wheeled vehicle, and mix the first audio information with the second audio information to generate mixed audio information; and

the audio switching apparatus is further configured to transmit the mixed audio information to the helmet;

wherein the audio switching apparatus comprises

a first communication module, for receiving the first audio information transmitted by the mobile terminal, and forwarding the first audio information to an audio identification module; and

the audio identification module, for identifying a type of the first audio information received, wherein the first communication module forwards the first audio information to the helmet when the first audio information is a call voice, and forwards the first audio information to the media control apparatus when the first audio information is a non-call voice;

the media control apparatus comprises a media control module and an audio mixing module, wherein the media control module is configured to forward the first audio information to the audio mixing module, and transmit control instructions to the audio mixing module; and

the audio mixing module is configured to receive the control instructions, and mix the first audio information with the second audio information to generate the mixed audio information.

2. The system according to claim 1, wherein the media control module is further configured to obtain priority information of the first audio information and the second audio information, or set different priorities for the first audio information and the second audio information depending on types of the audio information; and

control the audio mixing module to mix the first audio information with the second audio information according to the priority information to generate the mixed audio information.

3. The system according to claim 2, wherein the audio mixing module reduces or mutes volume of audio information of a lower priority when mixing audio information of different priorities.

4. The system according to claim 2, wherein the audio mixing module pauses audio information of a lower priority when mixing audio information of different priorities.

5. The system according to claim 1, further comprising:

a second communication module and a mixed audio playback module provided in the helmet, wherein the second communication module is configured to receive the mixed audio information, and the mixed audio playback module is configured to play the mixed audio information.

6. The system according to claim 1, further comprising:

a cloud server and a third communication module connected to the media control apparatus, wherein the cloud server exchanges information with the media control apparatus via the third communication module.

7. The system according to claim 6, wherein the media control apparatus receives configuration instructions transmitted by the cloud server, wherein the configuration instructions are used for generating priority rules and/or audio mixing parameters of the mixed audio information.

8. The system according to claim 1, further comprising:

a display module provided in the two-wheeled vehicle and connected to the media control apparatus, wherein the media control apparatus is configured to transmit audio mixing status information to the display module for a visual display.

9. An audio information transmission method, applied on the system according to claim 1, for transmitting audio information among a two-wheeled vehicle, a mobile terminal and a helmet, wherein the method comprises:

generating, by the two-wheeled vehicle, second audio information and receiving first audio information transmitted by the mobile terminal;

mixing, by the two-wheeled vehicle, the first audio information with the second audio information to generate mixed audio information; and

transmitting, by the two-wheeled vehicle, the mixed audio information to the helmet for playback.

10. An audio information transmission apparatus, applied on the system according to claim 1, for transmitting audio information among a two-wheeled vehicle, a mobile terminal and a helmet, wherein the apparatus comprises:

an audio receiving module configured to receive second audio information generated by the two-wheeled vehicle and first audio information transmitted by the mobile terminal;

an audio mixing module configured to mix the first audio information with the second audio information to generate mixed audio information;

an audio transmission module configured to transmit the mixed audio information to the helmet; and

a control module configured to control the helmet to play the mixed audio information.

11. A two-wheeled vehicle, applied on the system according to claim 1, comprising a vehicle body and a media control apparatus provided in the vehicle body, wherein the two-wheeled vehicle further comprises an audio switching apparatus connected to the media control apparatus, wherein

the audio switching apparatus establishes a data connection to each of a mobile terminal and a helmet, for receiving first audio information transmitted by the mobile terminal and transmitting the first audio information to the media control apparatus;

the media control apparatus is configured to receive the first audio information and second audio information generated by the two-wheeled vehicle, and mix the first audio information with the second audio information to generate mixed audio information; and

the audio switching apparatus is further configured to transmit the mixed audio information to the helmet.

12. A helmet, applied on the system according to claim 1, comprising a shell and a second communication module provided inside the shell, wherein the helmet further comprises: a mixed audio playback module, wherein the second communication module is connected to a

two-wheeled vehicle for receiving mixed audio information transmitted by the two-wheeled vehicle and forwarding the mixed audio information to the mixed audio playback module;

the mixed audio information is generated by the two-wheeled vehicle mixing first audio information transmitted by the mobile terminal with second audio information generated by the two-wheeled vehicle; and

the mixed audio playback module is configured to play the mixed audio information.

13. An electronic device, comprising a memory storing a computer executable program and a processor, wherein the processor executes the method according to claim 9 when the computer program is executed by the processor.

14. A computer-readable storage medium, storing one or more programs, wherein the one or more programs, when executed by a processor, implement the method according to claim 9.